



# New Runway Project

---

PRELIMINARY DRAFT  
MAJOR DEVELOPMENT PLAN

---

**VOLUME A: BACKGROUND  
AND NEED** SECTIONS 1-7  
MAY 2018





# Appendices

## Glossary of Terms

### 03L/21R

Existing main runway designation

### 03R/21L

New runway designation

### 06/24

Existing cross runway designation

### Aircraft Movement

Either a take-off or a landing by an aircraft.

### Airport Lease

The lease agreement between Perth Airport Pty Ltd (formally Westralia Airports Corporation) and the Commonwealth of Australia.

### Airside

The movement area of an aerodrome, adjacent terrain and building or portions thereof, access to which is controlled.

### Airspace

The portion of the earth's atmosphere over which a nation exercises jurisdiction over aircraft in flight.

### Airspace Management Plan

The Airspace Management Plan is a high level document that provides the parameters for which detailed flight path planning can be undertaken prior to the construction of the New Runway.

Section 160 of the *Environment Protection and Biodiversity Conservation Act 1999* notes that before the NRP MDP can be approved the Commonwealth Minister for Infrastructure and Transport must consider the advice of the Minister for the Environment and Energy in relation to the adoption of implementation of a plan for aviation airspace management involving aircraft operations that have or will have or are likely to have a significant impact on the environment.

### Apron

A defined area on a land aerodrome intended to accommodate aircraft for loading and unloading passengers, mail or cargo, fuelling, parking or maintenance

### Australian Noise Exposure Forecast (ANEF)

Shows the anticipated noise exposure contours for the most likely or preferred long-term development and forecast for an airport.

### Baseline

The point from which the change in the environment as a result of impacts is measured.

### Excavator

Means a machine used for excavating soil or sediment material and may include a backhoe excavator, bulldozer, dredge or other similar equipment.

### Fauna

The animals of a given region or period considered as a whole.

### Flora

The plants of a particular region or period, listed by species and considered as a whole.

### Fly-in fly-out (FIFO)

Describes the pattern of work where by employees are flown to and from their place of work.

### Forrestfield-Airport Link

The new railway line that is being constructed by the State Government to connect Forrestfield and Perth Airport to the Perth Central Business District.

### General Aviation (GA)

Refers to all flights other than military and scheduled airline flights, both private and commercial.

### Grade separation

Name given to a method of aligning a junction of two or more roads at different heights (grades) so that they will not disrupt the vehicle traffic flow on other routes when they cross each other.

### Greater Perth

Greater Perth consists of the area defined by the Perth Metropolitan Region, with the City of Mandurah and the Pinjarra Level 2 Statistical Area of the Shire of Murray.

### Greenfield Area

An area of land that is yet to be developed

### Ground Based Augmentation Systems (GBAS)

A satellite-based precision landing system, recognised by ICAO as a potential future replacement for current instrument landing systems (ILS)

### Ground Disturbing Activities

Means the disturbance of earth or waters involving machinery including clearing, excavation, backfilling and compacting, but excludes geotechnical investigations, surveying, fencing and rehabilitation works.

### Interstate

Activities between States and/or Territories.

**Intrastate**

Activities within a State or Territory.

**Landside**

The portion of an aerodrome not designated as airside and to which the general public normally has free access.

**Living Stream**

A constructed or retrofitted vegetated waterway that mimics the characteristics of a natural stream.

**Major Development Plan (MDP)**

As defined by section 91 (1) of the *Airports Act 1996*.

**Master Plan**

As defined by section 71 (2) of the *Airports Act 1996*.

**Matter of National Environmental Significance (MNES)**

As defined by the *Environment Protection and Biodiversity Conservation Act 1999*.

**Movement areas**

The part of an aerodrome to be used for the surface movement of aircraft, including the manoeuvring areas and aprons.

**NATS**

The United Kingdom's provider of air traffic control services. In addition to providing services to 13 UK airports, and managing all upper airspace in the United Kingdom, NATS provides services around the world spanning Europe, the Middle East, Asia and North America. Additional information on NATS can be found at [www.nats.aero](http://www.nats.aero)

**N-contours**

A term used to describe noise through reporting the number of aircraft noise events louder than the specified dB(A) level.

**New Runway Project**

The New Runway Project (NRP) includes:

- construction, including clearing and site preparation, of a new runway up to 3,000 metres in length and with associated infrastructure.
- development of an airspace management plan that will cater for the changes to current airspace and flight paths to accommodate operations of the new runway.

**Pavement**

A prepared or semi prepared surface of a given depth for the purpose of providing added bearing capacity to an existing ground surface

**Perth Airport Estate (the estate)**

The parcel of land Perth Airport sits upon and that is leased from the Commonwealth Government

**Runway**

A defined rectangular area on a land aerodrome, prepared for the take-off and landing of aircraft along its length.

**Runway Number**

The number allocated to a runway end, being that whole number nearest to one tenth of the magnetic bearing of the runway centreline (measured clockwise from magnetic north) when viewed from the approach. Single digit numbers are preceded by zero and where the final numeral of the bearing is five degrees, the number allocated is the next largest number.

**Taxiway**

A defined path on an aerodrome established for the taxiing of aircraft and intended to provide a link between one part of the aerodrome and another, including:

- aircraft stand taxiway: a portion of an apron designated as a taxiway and intended to provide access to aircraft stands only,
- apron taxiway: a portion of a taxiway system located on an apron and intended to provide a through taxi route across the apron, and
- rapid exit taxiway: a taxiway connected to a runway at an acute angle and designed to allow landing aircraft to turn off at higher speeds than are achieved on other exit taxiways thereby minimising runway occupancy times.

**Transmissometers**

A device that helps to determine the visibility on the airfield.

## Acronym / Abbreviation

<b>03L/21R</b>	Main runway designation
<b>03R/21L</b>	New runway designation
<b>06/24</b>	Cross runway designation
<b>ACE</b>	Airport Capacity Enhancement
<b>ACES</b>	Airport Consultative Environmental Sustainability
<b>Airports Act</b>	<i>Airports Act 1996</i>
<b>Airservices</b>	Airservices Australia
<b>ALER</b>	Airfield Lighting Equipment Room
<b>ANEF</b>	Australian Noise Exposure Forecast
<b>ARFF</b>	Aviation Rescue and Fire Fighting
<b>A-SMGCS</b>	Advanced Surface Movement Guidance and Control System
<b>BITRE</b>	Bureau of Infrastructure Transport and Regional Economics
<b>BNE</b>	Brisbane
<b>CAGR</b>	Compound Annual Growth Rate
<b>CAPA</b>	Centre of Aviation
<b>CASA</b>	Civil Aviation Safety Authority
<b>CASR</b>	Civil Aviation Safety Regulations 1998
<b>CAT</b>	Precision Approach Category
<b>CBD</b>	Central Business District
<b>CBR</b>	California Bearing Ratio
<b>CEMP</b>	Construction Environmental Management Plan
<b>CGE</b>	Computable General Equilibrium
<b>CMEWA</b>	Chamber of Minerals and Energy Western Australia
<b>CONOPS</b>	Concept of Operations
<b>DAPs</b>	Departure and Approach Procedures
<b>DBNGP</b>	Dampier Bunbury Natural Gas Pipeline
<b>DBP Act</b>	<i>Dampier to Bunbury Pipeline Act 1997</i>
<b>DFO</b>	Direct Factory Outlet
<b>DEE</b>	Department of Environment and Energy
<b>EATS</b>	Empire Air Training Scheme
<b>EPBC Act</b>	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
<b>ERSA</b>	Enroute Supplement Australia
<b>FAC</b>	Federal Airports Corporation
<b>FAL</b>	Forrestfield-Airport Link
<b>FIFO</b>	Fly-in fly-out
<b>FTE</b>	Full Time Equivalent
<b>FY</b>	Financial Year
<b>GBAS</b>	Ground Based Augmentation System
<b>GDP</b>	Gross Domestic Product
<b>GRP</b>	Gross Regional Product

<b>GSP</b>	Gross State Product
<b>HIAL</b>	High Intensity Approach Lighting
<b>ICAO</b>	International Civil Aviation Organization
<b>IFR</b>	Instrument Flight Rules
<b>ILS</b>	Instrument Landing System
<b>ISCA</b>	Infrastructure Sustainability Council of Australia
<b>IVS</b>	International Visitor Survey
<b>JUHI</b>	Joint User Hydrant Installation
<b>LAHSO</b>	Land and Hold Short Operations
<b>MAGS</b>	Movement Area Guidance Signs
<b>MDP</b>	Major Development Plan
<b>MOS</b>	Manual of Standards
<b>NFPMS</b>	Noise and Flight Path Monitoring System
<b>NMD</b>	Northern Main Drain
<b>NOC</b>	Notice of Capacity
<b>NRP</b>	New Runway Project
<b>NVS</b>	National Visitor Survey
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>PACF</b>	Perth Airport Community Forum
<b>PADG</b>	Perth Airport Development Group
<b>PAG</b>	Partnership Agreement Group
<b>PAMG</b>	Perth Airports Municipalities Group
<b>PCF</b>	Planning Coordination Forum
<b>PER</b>	Perth
<b>RAAF</b>	Royal Australian Air Force
<b>RADS</b>	Regional Airports Development Scheme
<b>RESA</b>	Runway End Safety Area
<b>RET</b>	Rapid Exit Taxiway
<b>ROT</b>	Runway Occupancy Times
<b>RPT</b>	Regular Public Transport
<b>SMD</b>	Southern Main Drain
<b>SMR</b>	Surface Movement Radar
<b>STAAS</b>	Standard Terminal Area Arrival Speed
<b>STEP</b>	Significant Terminal Expansion Project
<b>SWIS</b>	South West Interconnected System
<b>TEC</b>	Threatened Ecological Communities
<b>TFI</b>	Tourism Futures International
<b>TSP</b>	Transport Security Program

## References

- Aboriginal and Torres Strait Islander Heritage Protection Act 1984*
- Aboriginal Heritage Act 1972*
- Airports (Building Control) Regulations 1996
- Airports (Environment Protection) Regulations 1997
- Airports (Protection of Airspace) Regulations 1996
- Airports Act 1996*
- Airports Regulations 1997
- Airspace Act 2007*
- Annex 14 to the International Civil Aviation, Volume I, 5th Edition, July 2009
- Australian Standards AS/NZS ISO31000:2009, September 2009
- Australian Standards AS5334-2013, June 2013
- Aviation Transport Security Act 2004*
- Bush Fires Act 1954*
- Central Metropolitan Perth Sub-Regional Strategy, Department of Planning, 2010
- City of Belmont Local Planning Scheme No. 15 (LPS 15)
- Civil Aviation Act 1988*
- Civil Aviation Regulations 1988
- Civil Aviation Safety Regulations 1998
- Commonwealth Scientific & Industrial Research Organisation, Climate Futures Tool, 2016
- Dampier to Bunbury Pipeline Act 1997*
- Directions 2031 and Beyond, Western Australian Planning Commission, 2010
- District Planning Scheme No. 2 (DPS 2), City of Wanneroo
- Draft Local Planning Scheme No. 24, City of Gosnells, September 2017
- Draft Local Planning Strategy, City of Gosnells, September 2017
- Perth and Peel @ 3.5 Million, Department of Planning, March 2018
- Environment Protection and Biodiversity Conservation Act 1999*
- Environment Protection and Biodiversity Conservation Regulations 2000
- Federal Aviation Authority Advisory Circular 150/5320- 6E 'Airport Pavement Design and Evaluation', September 2009
- Infrastructure Sustainability Council of Australia (ISCA)
- International Civil Aviation Organization Standards
- Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report (ARS), 2014
- Local Planning Policy No. 14 Development Area 6 (LPP 14), City of Belmont, February 2016
- Local Planning Scheme No. 17 (LPS 17), City of Swan
- Local Planning Scheme No. 23, City of Bayswater
- Local Planning Scheme No. 24 (LPS 24), City of Bayswater
- Local Planning Scheme No. 3 (LPS 3), City of Kalamunda
- Local Planning Scheme No. 4 (LPS 4), Shire of Mundaring
- Local Planning Scheme No. 6 (LPS 6), City of Melville
- Manual of Standards Part 139 - Aerodromes
- Metropolitan Region Scheme, Western Australian Planning Commission, June 2014



Midland Activity Centre Structure Plan, City of Swan, June 2016

*Native Title Act 1993*

NSW's Principles and Guidelines for Economic Appraisal of Transport Investment and Initiatives, March 2013

Perth Airport Master Plan 1999

Perth Airport Master Plan 2004

Perth Airport Master Plan 2009

Perth Airport Master Plan 2014

Perth Airport New Runway Project O3R/21L Economic Impact Assessment, ACIL Allen Consulting, 2017

Perth Airport Parallel Runway Concept of Operations, NATS, September 2013

Perth Airport's Aboriginal Heritage and Engagement Policy

Planning Scheme 2 (CPS 2), City of Perth

State Planning Policy 2.8 Bushland Policy for the Perth Metropolitan Region, Department of Planning, 2010

State Planning Policy 4.2 Activity Centres for Perth and Peel, Western Australian Planning Commission, July 2015

State Planning Policy 5.1 Land Use Planning in the Vicinity of Perth Airport, 2015

State Planning Policy 5.4 Road and Rail Transport Noise and Freight Considerations in Land Use Planning, Department of Planning, 2009

State Planning Strategy 2050, Western Australian Planning Commission, June 2014

Swan Urban Growth Corridor Sub-Regional Structure Plan, Department of Planning, 2009

The Western Australian State Aviation Strategy, Department of Transport, February 2015

Tourism Research Australia, International Visitors Survey, 2016

Tourism Research Australia, National Visitors Survey, 2016

Town Planning Scheme 10 (TPS 10), Town of Bassendean

Town Planning Scheme No. 1 (TPS 1), City of Vincent

Town Planning Scheme No. 1 (TPS 1), Town of Cambridge

Town Planning Scheme No. 1 (TPS 1), Town of Victoria Park

Town Planning Scheme No. 2 (TPS 2), City of Nedlands

Town Planning Scheme No. 40 (TPS 40), City of Canning

Town Planning Scheme No. 6 (TPS 6), City of Gosnells

Town Planning Scheme No. 6 (TPS 6), City of South Perth

Transport @ 3.5 million - Perth Transport Plan, Western Australian Department of Transport, 2017



**Perth Airport Pty Ltd**

Level 2, 2 George Wiencke Drive, Perth, WA 6105  
PO Box 6, Cloverdale, WA 6985  
Tel: +61 8 9478 8888 Fax: +61 8 9478 8889  
[www.perthairport.com.au](http://www.perthairport.com.au)